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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,687	01/11/2002	Kevin W. Haulk	9867.00	9701
26884	7590	07/27/2004	EXAMINER	
PAUL W. MARTIN			CHASE, SHELLY A	
LAW DEPARTMENT, WHQ-4				
1700 S. PATTERSON BLVD.			ART UNIT	PAPER NUMBER
DAYTON, OH 45479-0001			2133	

DATE MAILED: 07/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/044,687	HAULK ET AL.
	Examiner	Art Unit
	Shelly A Chase	2133

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### **Status**

- 1) Responsive to communication(s) filed on 11 January 2002.
- 2a) This action is FINAL.                                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### **Disposition of Claims**

- 4) Claim(s) 1-10 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-10 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### **Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### **Priority under 35 U.S.C. § 119**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### **Attachment(s)**

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_\_.
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date \_\_\_\_\_.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_.

## **DETAILED ACTION**

1. Claims 1 to 10 are presented for examination.

### ***Specification***

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

### ***Claim Objections***

3. Claims 1 and 7 are objected to because of the following informalities: please change "displayed by the ESL" to --- displayed by the ESL's registers ---.  
Appropriate correction is required.

### ***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1 to 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are indefinite because, preceding step (c) of claim 1, the claim recite "ESL register" and "ESL data file" while step (c) recites "messages to the ESL", the phrase of step (c) is vague. Steps d, f and h, contains unclear subject matter. Claims 3, 5, 7 to 8 and 10 have a similar problem. Claims 2, 4, 6 and 9 are also rejected under 112 second paragraph due to their dependency on a rejected base claim.

### ***Allowable Subject Matter***

6. Claims 1 to 10 would be allowable once the 112 second paragraph rejection is overcome.

7. The following is a statement of reasons for the indication of allowable subject matter:

The present invention is directed to detecting and correcting errors in an electronic shelf label (ESL) system utilizing an error checking method wherein a computed error check code is compared with a received error check code and a positive or negative acknowledgement message is transmitted based on the comparison results.

The prior art made of record teaches various methodologies for detecting errors in an ESL utilizing error correction coding. Goodwin, III (USP 5878064), discloses a method for detecting and reporting failures in an electronic price label (EPL) system wherein a status reply message is compared to fault data within a stored fault data file

and determine if a fault is present. Zimmerman et al. (USP 5758064), discloses a method for diagnosing communication problems of EPL by utilizing a signal-to-noise ratio method for the return messages. Briechle (USP 5704049), discloses an electronic price display with ESL's wherein a CRC is used to check the received message for errors.

However, the prior art made of record is different from the instant invention in that it fails to teach or fairly suggests the novel elements of the instant invention. Specifically, the prior art made of record, taken alone or in combination, fails to teach or fairly suggests or render obvious a method of automatically detecting and correcting errors in an electronic shelf label's (ESL's) registers, the ESL's registers storing data controlling the content and formatting of information displayed by the ESL, the method comprising the steps of: calculating a sumcheck of at least a portion of the data image by an ESL computer; transmitting a positive acknowledgement if the received sum check matches the calculated sumcheck and transmitting a negative acknowledgement if the received sumcheck does not match the calculated sumcheck. Claims 2 to 6 are directly or indirectly dependent on claim 1 thus; these claims are allowable over the prior art made of record.

Claim 7 is similar to claim 1 and is allowed for the same rationale applied to claim 1.

***Conclusion***

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shelly A Chase whose telephone number is 703-308-7246. The examiner can normally be reached on Mon-Thur from 8:00 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decayd can be reached on 703-305-9595. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Shelly A Chase